

 [Directory](#)

[< Track & Infrastructure](#)

TECHNO-ELEC

Specialising in Responsive Relays

TECHNO-ELEC specialises in designing, manufacturing and selling measuring relays, known as 'responsive relays'. TECHNO-ELEC is a key partner of electrical traction (metros, tramways, trains, high-speed trains, substations).

We manufacture products for both on-board and trackside applications.

Services

Studies

- Measurement relay design, voltage, current, differential or for specific application, based on Servo-Contact technology
- Consulting and expertise on choice of features to size the product according to customer needs

Production & Marketing

- Development, manufacture and sale

Aftersales Service

- Preventive maintenance (product functional checks)
- Curative maintenance (expertise and repair, change of worn parts)
- Specific maintenance contracts

Main Characteristics

- Operation fields: from 1mA to 15,000A / from 10mV to 4,000V (AC/DC)
- Dielectric strength: up to 20,000V 50Hz- 1 min (primary circuit/secondary circuit)
- High overloads on measuring circuit
- Fire resistance according to standards NF F16-101-

102 & EN 45545

- Fully operational whatever the direction

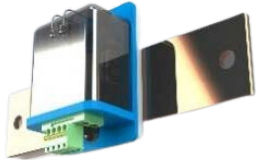
Relay Categories

- Current relays: they are used in applications such as current detection, threshold control, overload detection, ground fault detection, engine start, etc.
- Voltage relays: they are used in applications such as voltage detection, catenary voltage detection, threshold control, voltage monitoring of battery chargers, etc.
- Differential relays: they are used in applications such as DC or AC current differential protection, AC or DC voltage differential protection, etc.
- Custom relays: associated to electronics, we can create more specific relays, such as time-relays on closing or tripping, flashing relays, clipper time relays, etc.



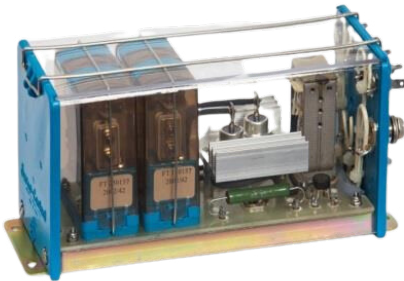
TECHNO-ELEC

Main Characteristics and Benefits



Tailor-Made Relays

- Wide range of adjustment
- Precision, sensitivity
- From 1 mA to 15000 Amp
- From 10 mV to 10000 Volts
- May be mounted in any ways (headdown)
- Fit to unique requests



Reliability and Strength

- Functioning in vehicles for more than 50 years
- Lifetime: 10⁷ operations
- Ambient operating temperature: from - 25° to + 70°C
- Humidity: 95%
- No maintenance



High Galvanic Separation

- Dielectric testing to 20k volts (between HT and LT)

No Auxiliary Supply Required

- Standalone equipment
- Protection of people and equipment

High Resistance to Strong Overloads

- Overload protection (motor ...)
- Overload protection in short circuit



Low Energy Consumption

- From some mWatts to a few Watts (close to zero for current relays)

Self-Restorable

- Customers can repair and maintain our devices themselves
- After sales services
- Plug and play

Respectful to Railway Standards

- IEC 60077 / IEC 60068
- EN 50123 / EN 50124

Flexibility and Reactivity

- Good management of urgent cases
- Manufacturing flexibility

Made in France

